

What is claimed is:

1. A condenser microphone comprising:  
a substrate;  
a back plate having a stationary back electrode and  
5 secured to the substrate;  
a spacer mounted on the back plate;  
a diaphragm electrode on the spacer; and  
a frame having a sound collecting hole and mounted on  
the diaphragm electrode.
- 10 2. The condenser microphone according to claim 1  
wherein at least one recess in which wirings connecting the  
stationary back electrode, diaphragm electrode and circuits  
on the substrate is provided on a side of the microphone.
3. A method for manufacturing condenser microphones  
15 comprising the steps of;  
preparing a substrate aggregation having a plurality  
of divisions, and a substrate being provided in each of the  
divisions;  
preparing a back plate aggregation having a stationary  
20 back electrode at each division;  
preparing a spacer aggregation having an opening at  
each division;  
preparing a frame aggregation having a sound collecting  
hole at each division and a diaphragm electrode on the  
25 underside of the frame aggregation around the sound collecting  
hole;  
stacking said aggregations and adhering the  
aggregations to each other to form an assembly of aggregations;

cutting the assembly of aggregations to separate a condenser microphone at each division.

4. The method according to claim 3 wherein the substrate aggregation, back plate aggregation and frame aggregation are made of ceramic.

5. The method according to claim 3 wherein the stationary back electrode is formed by printing a metal paste.

6. The method according to claim 3 wherein the diaphragm electrode is formed by vacuum deposition of metal.

10 7. The method according to claim 3 wherein each of the divisions has a square, and holes are formed at four corners of each division, wirings are provided for connecting elements in the microphone.